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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 65.US2.PCT |
| | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/568301 |
| INTERNATIONAL APPLICATION NO. PCT/US2004/025854 | INTERNATIONAL FILING DATE August 9, 2004 | PRIORITY DATE CLAIMED August 18, 2003 |
| TITLE OF INVENTION METHODS AND COMPOSITIONS RELATING TO MODULATION OF GPCR SIGNALING | | |
| APPLICANT(S) FOR DO/EO/US Fu-Yue Zeng and Dominic Behan | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. | | |
| 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. | | |
| 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. | | |
| 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). | | |
| 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <div style="margin-left: 20px;"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office(RO/US) </div> | | |
| 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <div style="margin-left: 20px;"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </div> | | |
| 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <div style="margin-left: 20px;"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. </div> | | |
| 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | |
| 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | |
| 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | |
| 13. <input checked="" type="checkbox"/> A preliminary amendment. | | |
| 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. | | |
| 15. <input type="checkbox"/> A substitute specification. | | |
| 16. <input checked="" type="checkbox"/> A power of attorney and/or address letter. – included on the Declaration | | |
| 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. | | |
| 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). | | |
| 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | |
| 20. <input type="checkbox"/> Other items or information: | | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

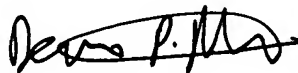
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|---|--------------|---|------------|---|-----------------|
| U.S. APPLICATION NO. 10/568301 (If known, see 37 CFR 1.63) | | INTERNATIONAL APPLICATION NO. PCT/US2004/025854 | | ATTORNEY'S DOCKET NUMBER 65.US2.PCT | |
| 21. The following fees are submitted: | | | | Applicant use | Office use only |
| <input checked="" type="checkbox"/> a) Basic national fee.....\$300.00 | | | | \$ 300.00 | |
| <input checked="" type="checkbox"/> b) Examination fee.....\$200.00 | | | | \$ 200.00 | |
| <input checked="" type="checkbox"/> c) Search fee.....\$500.00 | | | | \$ 500.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$1,000.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof | | | | | |
| Total Sheets | Extra sheets | Number of each 50 or fraction thereof (round up to a whole number) | RATE | | |
| 67 - 100 = | 0/ 50 = | 0 | x \$250.00 | \$ | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | \$ | |
| Total Claims | 63 - 20 = | 43 | x \$50.00 | \$ 2150.00 | |
| Independent Claims | 7 - 3 = | 4 | x \$200.00 | \$ 800.00 | |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable) Yes | | | + \$300.00 | \$ 300.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 4250.00 | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | \$ 2125.00 | |
| SUBTOTAL = | | | | \$ 2125.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | \$ | |
| TOTAL NATIONAL FEE = | | | | \$ 2125.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ | |
| TOTAL FEES ENCLOSED = | | | | \$ 2125.00 | |
| Amount to be refunded: | | | | | \$ |
| Amount to be charged: | | | | | \$ |

- a. ☐ A check in the amount of \$_____ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No.50-1441 in the amount of **\$2,125.00** to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1441. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Arena Pharmaceuticals, Inc.
6166 Nancy Ridge Drive
San Diego, CA 92121-3223


 SIGNATURE

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 NAME

50,711
 REGISTRATION NUMBER

10/568301
IAP9 Rec'd PCT/PTO 15 FEB 2006

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February 15, 2006

Express Mail Label No. EV 332846736 US

Mail Stop: PCT
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

RE: U.S. National Phase Patent Application of
Serial No. PCT/US04/025854
For: "METHODS AND COMPOSITIONS RELATING TO MODULATION OF
GPCR SIGNALING"
Inventors: Fu-Yue Zeng and Dominic Behan
Our Ref.: 65.US2.PCT

Dear Sir:

Enclosed please find the above-identified U.S. National Phase application under 35 U.S.C. 371 for filing with the United States Patent and Trademark Office. The applicant claims Small Entity status. The following documents are transmitted herewith:

| | <u>Quantity</u> |
|--|-----------------|
| 1) Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 | 2 Pages |
| 2) Declaration and Power of Attorney | 5 Pages |
| 3) Preliminary Amendment | 11 Pages |
| 4) Application Data Sheet | 4 Pages |
| 5) Authorization to charge Deposit Account 50-1441 in the amount of \$2,125.00 for the filing fee – (see Transmittal Sheet) | |
| 6) Return Receipt Postcard | |

The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment in the processing of these documents to our Deposit Account No. 50-1441.

Very truly yours,

ARENA PHARMACEUTICALS, INC.




Deno P. Dialynas
Reg. No. 50,711

DPD / lal
Enclosures

Certificate of Mailing under 37 CFR 1.10

Express Mail Label No.: EV 332846736 US Date of Deposit: February 15, 2006
I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the Date of Deposit shown above, postage prepaid and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Signature

Deno P. Dialynas